```
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                   US-08-775-882-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT
                                                                                   7, 2005, 14:47:41; Search time 30.9604 Seconds (without alignments) 711.279 Million cell updates/sec
                                                                                                                                                                       1550
1 MLLVLJVLSWLPHGGALSLA.....DTGVSLQTYDDLAAKDCHCI 295
                                                                                                                                                                                                                                                                                                    513545
                                                                                                                                                                                                                                                                                                                                                                                                                                             GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                    513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                          Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                           OM protein - protein search, using sw model
                                                                                                                                                                                                                    BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                       US-10-009-431-3
                                                                                        June
                                                                                                                                                       Title:
Perfect score:
                                                                                                                                                                                                                     Scoring table:
                                                                                                                                                                                      Sequence:
                                                                                                                                                                                                                                                                    Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                Database
                                                                                          Run on:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Description	Sequence 4, Appli	9	Sequence 6, Appli	449	192,	01	Н	7	7			Sequence 4, Appli				7	19,	8	19,	8	13	8,7	61	19, A	. 51		Sequence 11259, A
SUMMARIES	US-08-775-882-4-	US-08-775-882-6-	US-09-276-600-6-	IIS-09-976-594-449	-86-09-919-039-192	86.08 -927-433-9	US-09-949-016-10118	US-08-411-607A-2	US-09-361-741-2	US-09-461-418-2	US-09-949-016-6559	U\$-08-626-185-4	US-08-927-433-8	US-08-927-433-10	US-08-775-882-2	US-09-463-931-2	US-08-459-346-19	US-07-989-847-8	US-08-889-419-19	US-08-469-411-8	US-08-402-542-19	US-09-780-601A-8	US-09-949-016-6118	PCT-US93-07189-19	5187076-6	5187076-6	US-09-949-016-11259
DB	'n	٣	4	4	4	m	4,	~	4	4	4	4	m	٣	٣	4	7	~	m	٣	m	4	4	ហ	9	9	4
Length	308	308	308	308	308	308	314	295	295	295	308	119	112	112	66	115	513	513	513	513	513	513	513	513	513	513	563
% Query Match	100.0	100.0	100.0	100.0	100.0	7.66	99.7	99.5	99.5	99.2	98.8	42.5	40.3	40.3	35.2	29.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
Score	1550	1550	1550	1550	1550	1546	1546	1542	1542	1542	1531	629	624	624	545	460	229	229	229	229	229	229	229	229	229	229	229
Result No.		7	٣	4	2	9	7	8	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27

Sequence 33, Appl Sequence 33, Appl	
я	
US-08-278-729A-33 US-08-66-672-33 US-08-643-563A-33 US-08-643-763A-33 US-08-643-763A-33 US-08-455-623-33 US-08-455-93A-33 US-08-455-468A-33 US-08-912-088-33 US-08-912-088-33 US-08-912-088-346-33 US-08-912-088-33 US-08-912-088-33 US-08-912-088-33 US-08-145-467-33 US-08-4145-467-33 US-08-4145-467-33 US-08-4145-467-33 US-08-4145-467-33 US-08-416-453-33 US-08-416-333	
$\neg \neg $	
222222222222222222222222222222222222222	

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YADA, Mika
TSUJI, Tomoko
OHMORI, Hitoshi
VENTION: HUMAN NOVEL CDNA, TGF-BETA SUPERFAMILY
VENTION: PROTEIN ENCODED THEREBY AND THE USE AS IMMUNOSUPPRESSIVE
VENTION: AGENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/775,882 FILING DATE: 02-JAN-1997
                                                                                                                                                                                                                                                                                           STREET: 3000 K Breet, N.W., Suite 500 CITY: Washington STATE: D.C. COUNTRY: USP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/390,207
FILING DATE: 16-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/379,441
FILING DATE: 03-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JF 5-61431
PILING DATE: 26-FEB-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PILING DATE: 26-FEB-1993
RHIOR APPLICATION DATA:
APPLICATION NUMBER: JP 4-327619
FILING DATE: 13-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 4-208077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
Sequence 4, Application US/08775882
Patent No. 6180602
                                                              KATO, Seishi
OH, Suwan
SEKINE, Shingo
SAEKI, Mihoro
KOBAYASHI, Midori
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 04-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: WEGNER, Harold C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 2007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                               APPLICANT: TSUJI, TOMOKC APPLICANT: OHNORI, HILOS TITLE OF INVENTION: HOW TITLE OF INVENTION: PROJ TITLE OF INVENTION: AGEN NUMBER OF SEQUENCES: 10 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
```

7, 2005, 14:49:12; Search time 85.2871 Seconds (without alignments) 1245.908 Million cell updates/sec OM protein - protein search, using sw model June Run on:

US-10-009-431-3 1550 1 MLLVLAVLSWLPHGGALSLA.....DTGVSLQTYDDLLAKDCHCI 295 Title: Perfect score: Sequence:

BLOSUM62 Scoring table:

Gapop 10.0 , Gapext 0.5

1599520 seqs, 360203123 residues Searched:

Total number of hits satisfying chosen parameters:

1599520

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Published Applications AA:*

1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/prodata/1/pubpaa/PCT_NEW PUB.pep:*
3: /cgn2_6/prodata/1/pubpaa/PCT_NEW PUB.pep:*
4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep:*
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7: /cgn2_6/prodata/1/pubpaa/US08_NEW PUB.pep:*
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11: /cgn2_6/prodata/1/pubpaa/US108_PUBCOMB.pep:*
12: /cgn2_6/prodata/1/pubpaa/US108_PUBCOMB.pep:*
13: /cgn2_6/prodata/1/pubpaa/US108_PUBCOMB.pep:*
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17: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep:*
18: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. /cgn2_6/ptodata/1/pubpaa/US11 NEW PUB.pep:* /cgn2_6/ptodata/1/pubpaa/US60 NEW PUB.pep:* /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

SUMMARIES

			Description	Sequence 6, Appli	Seguence 188. App	Sequence 192, App	Sequence 6, Appli	Sequence 2, Appli	Sequence 229584,	Sequence 2, Appli	Sequence 72, Appl	Sequence 2, Appli	Sequence 1, Appli	Sequence 327, App	Sequence 113, App
COLUMNICO		;	LD.	US-09-276-600-6	US-09-981-353-188	US-09-919-039-192	US-10-000-628-6	US-10-257-597-2	US-10-425-115-229584	US-09-361-741-2	US-10-211-689-72	US-10-270-377-2	US-10-257-597-1	US-10-205-823-327	US-10-021-660-113
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		Query	Lengtn	308	308	308	308	308	308	295	308	295	308	308	308
	do	Query	marcn	100.0	100.0	100.0	100.0	100.0	7.66	99.5	99.5	99.2	99.2	98.8	98.8
			score	1550	1550	1550	1550	1550	1546	1542	1542	1538	1537	1531	1531
		Result	. 00.	1	7	m	₫'	w	ø	7	80	σı	10	11	12

10119244	Sequence 816, App Sequence 38, Appli Sequence 33, Appli Sequence 33, Appli Sequence 33, Appli Sequence 49, Appli Sequence 46, Appli Sequence 36, Appli Sequence 14, Appli Sequence 14, Appli Sequence 2, Appli Sequence 2, Appli Sequence 21, Appli Sequence 40, App	Sequence 31, Appl
15 US-10-295-027-618 15 US-10-295-027-1379 15 US-10-211-62-191 16 US-10-446-64-2 15 US-10-211-689-76 9 US-09-789-919-68 15 US-10-211-689-74 14 US-10-134-382-2 14 US-10-1408-765A-976 15 US-10-164-279-33 15 US-10-164-279-33	15 US-10-291-265-816 18 US-08-260-618-8 18 US-08-260-675-33 10 US-09-952-318A-33 14 US-10-122-026-15 14 US-10-122-026-15 15 US-10-126-324-36 16 US-09-813-398-36 16 US-09-813-398-36 16 US-10-125-026-14 19 US-09-784-911-4 14 US-10-125-026-14 15 US-09-784-911-2 16 US-09-784-911-2 17 US-09-952-318A-21 14 US-10-374-971-2 18 US-10-374-971-2 19 US-09-952-318A-21 14 US-10-160-050-051	9 US-09-813-398-31
3308 3308 2208 208 208 208 208 208 208 208 208	8113 3172 3172 3172 3172 3172 3172 3172 3	403
0 0 0 0 0 0 0 0 4 0 0 4 4 4 4 4	44444444444444444444444444444444444444	13.7
1531 1531 1531 1531 1464 884.5 884.5 540 229 229 229	229 221 221 221 221 221 221 221 221 221	212.5
2,22,22,22,22,22,22,22,22,22,22,22,22,2	00000000000000000000000000000000000000	4. 5

ALIGNMENTS

APPLICANT: Patricia Billing-Medel
APPLICANT: Patricia Chen
APPLICANT: Maurice Cohen
APPLICANT: Tracey L. Colpitts
APPLICANT: Julian Gordon
APPLICANT: Julian Gordon
APPLICANT: Stephen D. Stroupe
APPLICANT: Stephen D. Stroupe
TITLE OF INVENTION: Reagents and Methods Useful for
TITLE OF INVENTION: Detecting Disease of the Prostate
FILE REFERENCE: 6397.US. 01
CURRENT APPLICATION NUMBER: US/09/276,600
CURRENT APPLICATION NUMBER: 1999-03-25
NUMBER OF SEQ ID NOS: 11
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 6 ; Sequence 6, Application US/09276600 ; Patent No. US20010010908A1 TYPE: PRT ORGANISM: Homo sapiens GENERAL INFORMATION: US-09-276-600-6 LENGTH:

Gaps ö 100.0%; Score 1550; DB 9; Length 308; 100.0%; Pred. No. 2.2e-120; ive 0; Mismatches 0; Indels 0 Best Local Similarity 100. Matches 295; Conservative Query Match

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1 MILIVILVISWIPHGGALSLABASRASPPGPSELHTEDSRFRELRKRYEDLLTRLRANQSW

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Run on:

June 7, 2005, 14:46:10; Search time 89.9604 Seconds (Without alignments) 1679.221 Million cell updates/sec

Title: Perfect score: Sequence:

US-10-009-431-3 1550 1 MELVELVESWEPHGGALSEA.....DTGVSEQTYDDLEAKDÇHCI 295

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

1612378 Total number of hits satisfying chosen parameters: 1612378 seqs, 512079187 residues Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STIMMARIES

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																							•						-	_
Description	Q99988 homo sapien	mus n	Qenxe3 mus musculu	Q9z0j6 rattus norv	crasso		-	•	٠.	_		Ε.		-	_	076514 caenorhabdi	Q6p4j4 xenopus tro	_	٠	P34820 homo sapien	Q7z5y6 homo sapien	-	Q75ryl homo sapien	Q66nc0 capra hircu	Q66kl4 xenopus tro	Q8bh87 m mus muscu	Q9bdw9 macaca fasc	Q9bdw8 cercopithec	Q9xyq8 strongyloce	
SUMMARIES	GDFF HUMAN	GDFF MOUSE	Q6NX <u>6</u> 3	GDFF_RAT	Ове Энв	098950	090723	Q645R0	BMP6 HUMAN	GDF1 HUMAN	CSILS4	GDF / MOUSE	OB6RL/	QBBRW3	BMP6_MOUSE	076514	Q6P4J4	NODA HUMAN	002424	BM8B HUMAN	Q725 <u>Y</u> 6	NODA MOUSE	Q75R <u>Y</u> 1	GDF9_CAPHI	Q66KL4	О 8ВН87	Q9BDW9	GDF7 CERAE	09XXQ8	GFD7_HUMAN
08	48	-	7	Н	7	C3 (7		٠,	- 1 (٧,	٠ ،	N (~		7	N	-	7	Н	7	Н	7	7	8	7	7	п	~	-
* Query Match Length	308	303	303	303	387	373	373	350	770	3/5	200	10.0	301	435	210	365	424	347	365	402	402	354	453	453	350	354	294	447	289	450
% Query Match	100.0	58.8	58.7	57.3	16.5	15.5	15.3	14.	7.0		7.61	+ c	 	13.9	13.9	13.9	13.9	13.8	13.8	13.7	13.7	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.5
Score	1550	911.5	909.5	887.5	255.5	240.5	237.5	230	777	777	077	210	216	216	216	215.5	215	214.5	214.5	212.5	212.5	212	211.5	210.5	210	210	209.5	209.5	208.5	208.5
Result No.	7 7	m	4,	2	9	7	20 (,	2:	7.	17	7 ;	4.	15	16	17	18	19	20	21	22	23	24	25	56	27	28	53	30	31

Q04906 rattus norv Q9xyq7 lytechinus P23359 mus.musculu O77681 ovis arites P18075 homo sapien G6pudl anopheles g Q7pzi7 anopheles g Q6palo rattus norv P22003 homo sapien O96504 branchiosto Q9ygh7 xenopus lae Q7288 brachydanio P49003 mus musculu Q8cce0 mus musculu
BMP6 RAT 09XXQ7 BMP7 MOUSE BMP7 MOUSE GDF9 SHEEP BMP7 HUMAN 06PUD1 07PZ17 06HA10 094S47 09YGH7 07TZ 88 BMP5 MOUSE
п_манамминамина
V 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
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7, 2005, 14:46:46; Search time 25.703 Seconds June Run on:

(without alignments)
1104.306 Million cell updates/sec

Perfect score:

US-10-009-431-3 1550 1 MLLVLAVLSWLPHGGALSLA.....DTGVSLQTYDDLLAKDCHCI 295 Sequence:

BLOSUM62 Scoring table:

283416 segs, 96216763 residues Gapop 10.0 , Gapext 0.5 Searched: Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 79:* 1: pir1:* Database

2: pir2:* 3: pir3:* 4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Regult		مه د و د				
No.	Score	Match	Match Length DB	DB	ID	Description
				-		
•	10000 C 00 C COT L	000	000	c		והיותסטבות

	Description	placental transfor	bone morphogenetic	GDF-1 embryonic gr	Vg-1-related prote	cet-1 protein - Ca	osteogenic protein	gene nodal protein	vgr protein - rat		bone morphogenetic	bone morphogenetic	Vgl embryonic grow	osteogenic protein	bone morphogenetic	TGF-beta-related p	bone morphogenetic	activin beta E cha	growth/differentia	bone morphogenetic	GDF-1 embryonic gr	decapentaplegic pr	bone morphogenetic	bone morphogenetic	bone morphogenetic	cartilage-derived	bone morphogenetic	growth/differentia	bone morphogenetic	SPDVR1 protein - 8
SUMMARIES	0	JC5697	BMHU6	C39364	A54798	T43286	A45056	S29718	837618	BMHU7	BMHUS	I49542	A29619	JQ1184	151284	A43918	JH0690	JC5241	S45284	JH0687	A39364	A26158	JH0688	S43296	S37073	B55452	S58791	JC2347	JC4646	S52408
	9 10	5	ã	ິບ	2 A	Ž	Š Š	S	:i	E B	iii I	ì		-								<u>ک</u> ۲						5	-	8
	h DB	9	m		0	'n	آن در	4	<u>.</u>	-	4	'n	•	•	•										٠. ص	9	 @	덮	9	
	Length	309	51	372	51	36	40	354	20	43	4.5	452	36	430	31	45	42	350	44	35		288		151	393	43	40	501	476	46
æ	Query Match	98.2	14.8	14.3	13.9	13.9	13.7	13.7	13.4	13.4	13.3	13.2	13.2	13.2	13.0	12.8	12.6	12.5	12.2	12.1	12.1	12.0	11.8	11,8	11.5	11.4	11.4	11.3	11.3	11.2
	Score	1522.5	229	. 221	216	215.5	212.5	212	208	207	206.5	205	204	204	202	199	196	193	189.5	188	187	186.5	183	182.5	179	177	176	~	174.5	174
	Result No.	-	7	m	4	ស	9	7	60	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	. 58	59

		bone morphogenetic	bone morphogenetic	bone morphogenetic	bone morphogenetic	4 bone morphogenetic	bone morphogenetic	growth/differentia	bone morphogenetic	bone morphogenetic	transforming growt	transforming growt	transforming growt	inhibin beta-C cha	transforming growt
A55452	S38343	A49147	JH0689	S43294	BMHU4	I49541	JC4838	A46607	543295	845355	WFHU2	A27512	S01413	JC2466	A41918
7	7	~	~	~	н	7	~	ď	ņ	~	н	N	~	~	0
501	408	400	401	495	408	420	478	366	125	394	390	390	391	352	373
11.2	11.1	11.0	11.0	11.0	11.0	10.9	10.9	10.9	10.8	10.8	10.8	10.8	10.7	10.7	10.7
173	172.5	171	171	171	170	169.5	169.5	168.5	168	167.5	167	167	166.5	166	165.5
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

ап

C;Date: 20-Nov-1997 #sequence_revision 20-Nov-1997 #text_change 09-Jul-2004
C;Accession: JC5697
C;Accession: JC5697
C;Accession: JC5697
J: Sachi, M.; Sekine, S.; Kato, S.
J. Biochem. 122, 622-626, 1997
A;Title: Human cDNA encoding a novel TGF-beta superfamily protein highly expressed in § A;Reference number: JC5697; MUD: 98006316; PMID: 9348093
A;Accession: JC5697
A;Residues: 1-309 <XOK>

A;Cross-references: UNIPROT:Q9BWA0; DDBJ:AB000584 A;Experimental source: fibrosarcoma C;Comment: This protein plays a role in reproduction.

DB 2;

1 Gaps 7; Length 309; Indels ; ; Query Match 98.2%; Score 1522.5; DB 2 Best Local Similarity 99.0%; Pred. No. 1.1e-108; Matches 293; Conservative 0; Mismatches 2;

59 73 1 MLLVLLVLSWLPHGGALSLAEASRASFPGPS-ELHTEDSRFRELRKRYEDLLTRLRANQS 14 MLLVLLVLSWLPHGGALSLAEASRASPPGPSEELHTEDSFRRELRKRYEDLITRLRANQS ò 셤

134 RSWDVTRPLRRQLSLARPQAPALHLRLSPPPSQSDQLLAESSSARPQLELHLRPQAARGR 193 RRARARNGDHCPLGPGRCCRLHTVRASLEDLGWADWVLSPREVQVTMCIGACPSQFRAAN 239 180 a ð

194 RRARARNGDHCPLGPGRCCRLHTVRASLEDLGWADWVLSPREVQVTMCIGACPSQFRAAN 253

- 6

254 MHAQIKTSLHRLKPDTVPAPCCVPASYNPWVLIQKTDTGVSLQTYDDLLAKDCHCI 309 240 MHAQIKTSLHRLKPDTVPAPCCVPASYNPMVLIQKTDTGVSLQTYDDLLAKDCHCI 295 ò 셤

RESULT 2

Done morphogenetic protein 6 precursor - human CiSpecies: Homo sapiens (man)
Cjoace: 18-Oct-1991 #sequence_revision 03-Aug-1995 #text_change 09-Jul-2004
Cjoace: 183263
RjCeleste, A.J.; Iannazzi, J.A.; Taylor, R.C.; Hewick, R.M.; Rosen, V.; Wang, E.A.; Woz Proc. Natl. Acad. Sci. US.A. 87, 98437, 1990
AjTitle: Identification of transforming growth factor beta family members present in bo A;Reference number: A39263; MUID:91088608; PMID:2263636

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7, 2005, 14:44:20 ; Search time 99.8911 Seconds (without alignments) 1142.187 Million cell updates/sec
GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                       OM protein - protein search, using sw model
                  Copyright
                                                                                                                       June
                                                                                                                 Run on:
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US-10-009-431-3 1550 1 MLLVLVLSWLPHGGALSLA.....DTGVSLQTYDDLLAKDCHCI 295 Gapop 10.0 , Gapext 0.5 **BLOSUM62** Title: Perfect score: Scoring table: Seguence:

Total number of hits satisfying chosen parameters: 2105692 seqs, 386760381 residues Searched:

2105692

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Minimum DB seq length: 0 Maximum DB seq length: 200000000

geneseqp2003as:* geneseqp2003bs:* geneseqp2004s:* A_Geneseq 16Dec04:* geneseqp1990s:* geneseqp2000s:* geneseqp2001s:* geneseqp1980s:* geneseqp2002s:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	Aab36557 Himan GDF	7 Human	2 Human	2 Human	Human	Human	Human	7 Human	D Himan	Нишал	Human	Human	Human	Human	Human	Human	GF-2H	Human	Tumour			Нитап		Human	Human
SOMETRES	ID	AAB36557	AAR77097	AAW10662	AAB26122	ABB09174	AAE13538	ADA11070	ADE77027	ADL12720	AAR84710	AAW10673	AAW10666	AAW10672	AAW10668	AAW10667	AAW10671	AAW48672	AD163071	ABM82070	ADG71946	ADJ87283	AAW02613	AAW10670	AAW10669	AAE13539
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à	Query Match	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	7.66	99.7	7.66	7.66	7.66	7.66	99.7	99.7	7.66	99.7	99.5			99.2	99.2	99.5
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The present invention describes a transforming growth factor-beta (TGF-beta)-like protein designated growth/differentiation factor-15 (GDF-15) (I), which is derived from neurons and glial cells and which has a neurotrophic effect on dopaminergic (DAergic) neurons. (I) has

Claim 10; Fig 7b; 37pp; English.

disease and stroke.

Aawl0663 Human TGF Abu03550 Angiogene		Adn39300 Cancer/an Adn40061 Cancer/an	Adressor FAC FULLY Adressor Human pro	Human		Aaw31509 Growth di Aaw10674 TGF-beta-	Aaw10665 Human TGF Aar84709 Human emb	Aab36558 Human GDF Ada71948 Himan NOV	
AAW10663 ABU03550	ABU56743 ADB75503	ADN39300 ADN40061 ADD25261	ADR66910 ADR66012	ADJ87287	AAY79189	AAW31509 AAW10674	AAW10665 AAR84709	AAB36558 ADG71948	ADJ87285 AAR77096
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ALIGNMENTS

RESULT 1

Human, growth/differentiation factor; GDF; hGDF-15; neuroprotective; transforming growth factor beta; TGF-beta; neurotrophic; diagnosis; neurodegenerative; detection; dopaminergic; cerebroprotective; stroke; antiParkinsonian; nootropic; neuroprotective; antidepressant; dementia; Novel member of transforming growth factor-beta, GDF-15 which has neurotrophic effect on dopaminergic neurons, for treating neurodegenerative disorders such as Alzheimer's disease, Parkinson's neuroleptic, neurodegenerative disorder; neurological disorder; psychological disorder; Parkinson's disease; Alzheimer's disease; central nervous system infection; psychiatric disorder; depression; (BIOP-) BIOPHARM GES BIOTECHNOLOGISCHEN ENTWICKL. Human GDF-15 pre-pro-mature protein sequence. AAB36557 standard; protein; 295 AA. 16-MAY-2000; 2000WO-EP004445. 99EP-00109714. Unsicker K, Kriegelstein K; (first entry) schizophrenia, meningitis WPI; 2001-016236/02: N-PSDB; AAC88045. WO200070051-A1. Homo sapiens. 17-MAY-1999; 29-JUL-1999; 07-MAR-2001 23-NOV-2000. AAB36557; AAB36557

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Sequence 192, App
Sequence 10118, A
Sequence 2, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 5559, Ap
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Sequence 2, Appli
Sequence 2, Appli
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                                                               7, 2005, 14:47:41; Search time 11.7545 Seconds (without alignments) 711.279 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
                                            OM protein - protein search, using sw model
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Maximum DB seq length: 200000000
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Match Length DB
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	Query Ma Best Loc Matches	itch al	100 Similarity 100 2; Conservative	100.0%; 100.0%; trive		Score 624; DB 3; Pred. No. 3.3e-64 0; Mismatches 0	Length 112	. 6	Gaps	°°		
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Leguence 1379, App Sequence 1379, App Sequence 14, App Sequence 74, App Sequence 74, Appl Sequence 2, Appl Sequence 2, Appl

Sequence 327,

Sequence 68, Appl Sequence 76, Appl Sequence 71, Appl Sequence 210, Appl Sequence 831, Appl Sequence 831, Appl Sequence 7, Appli Sequence 17, Appli Sequence 14, Appl Sequence 12, Appli Sequence 14, Appli Sequence 14, Appli Sequence 12, Appli

Sequence 25, Appl Sequence 25, Appl Sequence 16, Appl Sequence 25, Appl

Sequence 6, App.

Version #1.30

Result ġ

Sequence 16, Sequence 11, Sequence 6, Sequence 6,

Sequence 11, Sequence 19,

Run on:

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Sequence 4, Application US/10373581
Publication No. US20030211541A1
GENERAL INFORMATION:
APPLICANT: Lee al., Se-Jin
TITLE OF INVENTION: GROWTH DIFFERENTIATION FACTOR-14
NUMBER OF SEQUENCES: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla.
STATE: CA
  1 WS-10-205-60113

1 WS-10-295-027-618

1 WS-10-295-027-618

1 WS-10-295-027-1379

1 WS-10-211-462-191

2 WS-10-214-689-74

1 WS-10-194-382-2

1 WS-10-194-382-2

1 WS-10-194-382-2

1 WS-10-194-382-2

1 WS-10-194-383-300

1 WS-10-194-318-300

2 WS-10-072-012-831

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2 WS-10-072-012-833
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US-10-154-333-14
US-10-704-223-12
US-10-122-026-14
US-08-260-675-25
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US-10-122-026-16
US-10-050-050-25
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US-09-389-705-14
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/373,581
FILING DATE: 24-Peb-2003
CLASSIFICATION: 536
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APPLICATION NUMBER: US/08/626,185
FILING DATE: 29-MAR-1996
ATTORNEY/AGENT INFORMATION:
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REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07;
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INFORMATION FOR SEQ ID NO: 4:
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COMPUTER READABLE FORM:
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                                                                                                                                                   Sequence 4, Appl:
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                                                                                                                                                                  7, 2005, 14:49:12 ; Search time 32.3802 Seconds (without alignments) 1245.908 Million cell updates/sec
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Sequence 6, Ap
Sequence 188,
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20: /cgm2_6/ptodata/1/pubpaa/USO0_NEW_PUB.pep:*
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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US-10-000-628-6
US-10-257-597-2
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US-10-270-377-2
US-10-211-689-72
US-10-257-597-1
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US-09-981-353-188
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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Copyright (c) 1993 - 2005 Compugen Ltd.
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P87373 gallus gall P22003 homo sapien	Q8cce0 mus musculu Q811s4 rattus norv P20722 mus musculu	P35621 brachydanio 07t2g5 xenopus bor	P09534 xenopus lae Q9ptf9 brachydanio	Q6gua6 sus scrofa Q66nc0 capra hircu	O77681 ovis aries Q6dgx1 sus scrofa	Q8hyl3 trichosurus
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P87373 BMP5_HUMAN	Q8CCEO Q811S4 BMP6 MOUSE	DVR1_BRARE Q7T2GS	DVR1 XENLA Q9PTF9	Q6GUA6 GDF9_CAPHI	GDF9_SHEEP Q6DQX1	Q8HY13
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C199938, 014629; P79360; QONRTO;

C199938, 014629; P79360; QONRTO;

C199938, 014629; P79360; QONRTO;

C199938, 014629; P79360; QONRTO;

DEPT. 16-0CT-2001 [RE1. 40, Last amortation update)

DEPT. 05-0CT-2001 [RE1. 40, Last amortation factor) [NAID-regulated DEPT. 40, Last amortation update]

DEPT. 05-0CT-2001 [RE1. 40, Last amortation factor) [NAID-regulated DEPT. 40, Last amortation update]

DEPT. 05-0CT-2001 [RE1. 40, Last amortation factor) [NAID-regulated DEPT. 40, Last amortation factor) [NAID-RES]

RAY PROBLINES-9406916; PubMed-9326641; DOI=10.1073/pnas.94.21.11514; RAY MEDLINES-9406916; PubMed-9326641; DOI=10.1073/pnas.94.21.11514; RAY MEDLINES-9406916; PubMed-9326799; DOI=10.1074/pbc.273.22.13760; RAY MEDLINES-94064637; PubMed-9327799; DOI=10.1016/S0167-4781(97)01122-X; RAY MEDLINES-940691637; PubMed-93375799; DOI=10.1014/jbc.273.22.13760; RAY MEDLINES-940691637; PubMed-9337789; DOI=10.1014/jbc.273.22.13760; RAY MEDLINES-940691637; PubMed-9323718; DOI=10.1014/jbc.273.22.13760; RAY MEDLINES-9406917; PubMed-9323002; DOI=10.1014/jbc.273.22.13760; RAY MEDLINES-9406917; PubMed-9323002; DOI=10.1014/jbc.273.22.13760; RAY MEDLINES-9406917; PubMed-9323002; DOI=10.1014/jbc.273.22.13760; RAY MEDLINES-9406917; PubMed-9323002; DOI=10.1016/S0139-1119(97)0485-X; MEDLINES-9406917; PubMed-
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GenCore version 5.1.6
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June Run on:

7, 2005, 14:46:46; Search time 9.75842 Seconds (without alignments) 1104.306 Million cell updates/sec

US-10-009-431-4 624

1 ARNGDHCPLGPGRCCRLHTV.....DTGVSLQTYDDLLAKDCHCI 112 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 Total number of hits satisfying chosen parameters:

283416 seqs, 96216763 residues

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES Ree

	Description	placental transfor	cet-1 protein - Ca	TGF-beta-related p	osteogenic protein	bone morphogenetic	bone morphogenetic	vgr protein - rat	bone morphogenetic	bone morphogenetic	bone morphogenetic	bone morphogenetic	Vg-1-related prote	Vgl embryonic grow		GDF-1 embryonic gr	osteogenic protein	growth/differentia	decapentaplegic pr	bone morphogenetic	growth/differentia	cartilage-derived	gene nodal protein	SPDVR1 protein - s	bone morphogenetic	GDF-1 embryonic gr	growth/differentia	transforming growt	cartilage-derived	activin beta E cha
SUMMAKIES	ID	JC5697	T43286	A43918	JQ1184	BMHU6	JH0690	837618	151284	BMHU7	149542	BMHUS	A54798	A29619	843296	C39364	A45056	S45284	A26158	S43294	JC2347	A55452	S29718	S52408	S43295	A39364	A46607	A45402	B55452	JC5241
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d	Query Match	100.0	32.2	31.2	30.8	30.6	30.4	30.1	30.1	30.1	30.1	30.1	30.1	29.6	28.8	28.2	28.0	27.9	27.2	7	27.2	27.2	26.8	26.4	26.2	26.1	26.0	25.2	25.0	24.1
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bone morphogenetic	bone morphogenetic	bone morphogenetic	bone morphogenetic	inhibin beta-C cha	bone morphogenetic	TGF beta homolog d	bone morphogenetic	bone morphogenetic	activin - fruit fl	activin beta D cha	bone morphogenetic				
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476 2 JC46	-	~	7	7	7	н	7	8	~	8	~	~	~	7	
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ALIGNMENTS

RESULT 1 JUSTS 1 JUSTS 1 JUSTS 1 JUSTS 20-With Factor-beta homolog - human C; Species: Homo sapiens (man) C; Species: Homo sapiens (man) C; Date: 20-Nov-1997 #sequence_revision 20-Nov-1997 #text_change 09-Jul-2004 C; Date: 20-Nov-1997 #sequence_revision 20-Nov-1997 #text_change 09-Jul-2004 C; Accession: Jose 20-626, 1997 A; Piochem. 122, 622-626, 1997 A; Reference number: JOSE 97; MUID: 9806316; PMID: 9348093 A; Reference number: JOSE 97; MUID: 9806316; PMID: 9348093 A; Residence: Lype: mRNA A; Residence: 1-309 < YOK> A; Residence: 1-309 < YOK> A; Residence: 1-309 < YOK> A; Comment: This protein plays a role in reproduction.
Query Match Best Local Similarity 100.0%; Score 624; DB 2; Length 309; Best Local Similarity 100.0%; Pred. No. 2.3e-55; Matches 112; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 ARNODHCPLGPGRCCRLHTVRASLEDLGWADWVLSPREVOVTMCIGACPSOFRAANMHAQ 60
QY 61 IKTSLHRLKPDTVPAPCCVPASYNPMVLIQKTDTGVSLQTYDDLLAKDCHCI 112

Dp	258 IKTSLHRLKPDTVPAPCCVPASYNPMVLIQKTDTGVSLQTYDDLLAKDCHCI 309
	•
RESULT 2	
T43286	
cet-1 pr	cet-1 protein - Caenorhabditis elegans
C, Specie	C;Species: Caenorhabditis elegans
C; Date:	C;Date: 11-Jan-2000 #sequence revision 11-Jan-2000 #text_change 09-Jul-2004
C; Access	C,Accession: T43286
D.Morita	B.Morita K . Chow K I Hano N

K;Morita, K.; Chow, K.L.; Ueno, N.
Development 126, 1337-1347, 1999
A; Title: Regulation of body length and male tail ray pattern formation of Caenorhabditi
A; Reference number: Z2Z393; MUID:99146896; PMID:10021351
A;Accession: T43286
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A/Residues: 1-365 <mor></mor>

A;Cross-references: UNIPROT:076514; EMBL:AF074395; NID:g3328181; PIDN:AAC26791.1; PID:g C;Genetics: A;Gene: cet-1 A;Gene: cet-1 A;Map position: 5 C;Superfamily: inhibin 32.2%; Score 201; DB 2; Length 365; 36.3%; Pred. No. 1e-12; Query Match Best Local Similarity Human G p Human TGF Human TGF Human mac Human pro Human pro

Adg71946 B Adj87283 B Aaw10670 B Aaw10669 B

Lung canc Prostate canc Cancer/an Cancer/an PRO polyp

Ade13539 Adr66910 Adr66910 Abu03550 Abu03550 Abu56743 Adb75503 Adb75061 Adb75061 Add70061 Add7096 Add77285 Adr77096 Adr77096 Adrar77096

Human NOV Human G p Human TGF

Murine

Aaw93161

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Sosinophil; inhibitor; active oxygen production; bronchial asthma; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence is that of a 112 amino acid mature protein isolated trom normal diploid cells of human embryonal lung tissue. The protein inhibits production of active oxygen in ecsinophils and is useful for treatment and prevention of bronchial asthma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A new protein for the treatment of bronchial asthma - inhibits the production of active oxygen in eosinophil(s).
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                                                         ADJ87283
AAW10670
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AAR77096
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N-PSDB; AAT05177.
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Copyright (c) 1993 - 2005 Compugen Ltd.
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US-09-183-733-11
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Sequence 1, Application US/08775882

Patent No. 618602

GENERAL INFORMATION:
FATO, Sealin
APPLICANT: RATO, Sealin
APPLICANT: REXURS, Shingo
APPLICANT: SEXURS, Shingo
APPLICANT: SEXURS, Shingo
APPLICANT: TSUJI, Tomoko
CUNNYX: USA
CUNNYX: USA
COMPUTER FALDALE FORM:
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7, 2005, 14:49:12 ; Search time 28.3327 Seconds (without alignments) 1245.908 Million cell updates/sec
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1 CCRLHTVRASLEDLGWADWV......TDTGVSLQTYDDLLAKDCHC
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Listing first 45 summaries
                                                                                                    OM protein - protein search, using sw model
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Appl Appl Appli Appli Appli

Sequence 9, Sequence 9, Sequence 6, Sequence (

Sequence

Sequence 5, A Sequence 25, A Sequence 19, Sequence 4, A

US-09-952-318A-19 US-10-122-026-4

ALIGNMENTS

Sequence 62,

Sequence

Sequence 833, A Sequence 14, Ap Sequence 15, App Sequence 11, App Sequence 11, App Sequence 28, App Sequence 28, App

4 US-10-021-660-113
5 US-10-295-027-618
5 US-10-211-462-191
6 US-10-211-462-191
6 US-10-211-462-191
6 US-10-211-689-74
1 US-10-194-382-2
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1 US-10-194-382-2
1 US-10-194-382-2
1 US-10-194-393-11
2 US-10-072-012-833
1 US-10-122-026-14
1 US-10-136-675-19
6 US-10-136-675-11
0 US-09-952-318A-28
1 US-10-187-394-14

Sequence 72, Appl Sequence 74, Appl Sequence 2, Appl 1 Sequence 68, Appl Sequence 976, Appl Sequence 77, Appl Sequence 210, Appl Sequence 300, Appl Sequence 301, Appl

Sequence Sequence

Sequence

Sequence 4, Application US/10373581
Publication No. US20030211541A1
GENERAL INFORMATION TO THE OF TAPLICANT: Lee et al., Se-Jin
TITLE OF INVENTION: GROWTH DIFFERENTIATION FACTOR-14
NUMBER OF SEQUENCES: ADDRESSE: Fish & Richardson P.C.
STREET: La Jolla
STREET: La Jolla COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/373,581
FILING DATE: 24-Feb-2003
CLASSIPICATION: 536
PRIOR APPLICATION: 536
PRIOR APPLICATION: DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/08/626,185
FILING DATE: 29-MAR-1996
ATORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A:
REGISTRATION NUMBER: 38,347
REPRENCE/DOCKET NUMBER: 07265/088001
TELECOMMUNICATION INFORMATION:
TELEFRANCA: 619/678-5070 COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk INFORMATION FOR SEQ ID NO: 4

> Sequence 192, App Sequence 6, Appli Sequence 1, Appli Sequence 2, Appli Sequence 229584, Sequence 2, Appli Sequence 2, Appli Sequence 327, App

US-09-919-039-192 US-10-000-628-6 US-10-257-597-1 US-10-257-597-2 US-10-425-115-229584

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US-09-276-600-6 US-09-981-353-188

US-10-270-377-2 US-10-205-823-327

US-09-361-741-2

Sequence 4, Appli Sequence 76, Appl Sequence 76, App. Sequence 6, Appli Sequence 188, Appli

Description

SUMMARIES

B

Query Match Length

Score

Result õ 100.0

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GenCore version 5.1.6
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- protein search, using sw model protein Š

7, 2005, 14:46:10 ; Search time 29.8851 Seconds June Run on:

(without alignments) 1679.221 Million cell updates/sec

US-10-009-431-4_COPY_14_111 541 1 CCRLHTVRASLEDLGWANW

Title: Perfect score:

CCRLHTVRASLEDLGWADWV......TDTGVSLQTYDDLLAKDCHC 98 Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Searched: Total number of hits satisfying chosen parameters:

1612378 seqs, 512079187 residues

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

1: uniprot_sprot:*
2: uniprot_trembl:* UniProt 03:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	099988 homo sapien	рошо	O9z0j7 mus musculu	26nx63 mus musculu	Q9z0j6 rattus norv	2869h8 crassostrea	002424 caenorhabdi	076514 caenorhabdi	Q6p4j4 xenopus tro	oubl anopheles s		_	_	_	homod s	gallus	298950 gallus gall	rattus	Q66k14 xenopus tro	P30886 xenopus lae	Q6pf75 xenopus lae	_	Q81184 rattus norv		gallus	Q9i8t6 gallus gall	xenopu			-	07t288 brachydanio
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& Query Match	100.0	100.0	75.2	75.2	73.8	٠	37.2	37.2	37.0	36.0	35.9	35.9	35.5	35.3	35.3	34.9	34.9		34.8		•		•		34.6	34.6	34.6	4	34.6	34.6	34.4
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185	184	184	184	181	181	180	180	180	180	180	180	178
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099988; 014629; P78366; Q9NRTO; 16-0CT-2001 (Rel. 40, Created) 16-0CT-2001 (Rel. 40, Last sequence update) 05-UUL-2004 (Rel. 44, Last annotation update) 05-UUL-2004 (Rel. 44, Last annotation to preursor (GDF-15) (Placental bone morphogenic protein) (Placental TGF-beta) (Macrophage inhibitory cytokine-1) (MIC-1) (Prostate differentiation factor) (NSAID-regulated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=97470998; PubMed=9326641; DOI=10.1073/pnas.94.21.11514; Bootcov M.R., Bauskin A.R., Valenzuela S.M., Moore A.G., Bansal M., He X.Y., Zhang H.P., Donnellan M., Mahler S., Pryor K., Walsh B.J., Nicholson R.C., Pairlie W.D., Por S.B., Robbins J.M., Breit S.N.; "MIC-1, a novel macrophage inhibitory cytokine, is a divergent member of the TGF-beta superfamily."; Proc. Natl. Acad. Sci. U.S.A. 94:11514-11519(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE=Placenta;
MEDLINE=98041637; PubMed=9375789; DOI=10.1016/S0167-4781(97)00122-X;
Hromas R., Hufford M., Sutton J., Xu D., Li Y., Lu L.;
Hromas R., Hofford Done morphogenetic protein.";
Biochim. Biophys. Acta 1354:40-44(1997).
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MEDLINE=98085971; PubMed=9426002; DOI=10.1016/S0378-1119(97)00485-X;
Lawton L.N., de Fatima Bonaldo M., Jelenc P.C., Qiu L., Baumes S.A.,
Marcelino R.A., de Jesus G.M., Wellington S., Knowles J.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=98256302; PubMed=9593718; DOI=10.1074/jbc.273.22.13760; Paralkar V.M., Vail A.L., Grasser W.A., Brown T.A., Xu H., Vukicevic S., Ke H.Z., Qi H., Owen T.A., Thompson D.D.; Cloning and characterization of a novel member of the transforming growth factor-beta/bone morphogenetic protein family."; J. Biol. Chem. 273:13760-13767(1998).
                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Fibrosarcoma;
MEDLINE=98006316; PubMed=9348093;
Yokoyama-Kobayashi M., Saeki M., Sekine S., Kato S.;
Thuman cDNA encoding a novel TGF-beta superfamily protein highly expressed in placenta...
J. Biochem. 122:622-626(1997).
                                                                                                                                                                                                                                Name=GDF15; Synonyms=MIC1, PDF, PLAB, PTGFB;
                                           308 AA.
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                                        HUMAN
                     HUMAN
RESULT 1
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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7, 2005, 14:46:46; Search time 8.53861 Seconds (without alignments) 1104.306 Million cell updates/sec June Run on:

US-10-009-431-4_COPY_14_111

541 1 CCRLHTVRASLEDLGWADWV.....TDTGVSLQTYDDLLAKDCHC Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 segs, 96216763 residues Searched:

Total number of hits satisfying chosen parameters:

seq length: 0 seq length: 200000000 Minimum DB Maximum DB

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

gene nodal protein SPDVR1 protein - s bone morphogenetic growth/differentia GDF-1 embryonic gr cartilage-derived bone morphogenetic growth/differentia cartilage-derived osteogenic protein bone morphogenetic Vg-1-related prote bone morphogenetic bone morphogenetic TGF-beta-related p bone morphogenetic bone morphogenetic osteogenic protein growth/differentia decapentaplegic pr transforming growt GDF-1 embryonic gr activin beta E cha placental transfor cet-1 protein - Ca bone morphogenetic Vgl embryonic grow bone morphogenetic Description SUMMARIES A29619 S43296 A45056 S45284 143286 JQ1184 BMHU6 S37618 JH0690 A54798 I51284 A43918 I49542 A45402 A39364 JC5241 543294 A55452 S29718 S52408 S43295 A26158 JC2347 A46607 BMHU7 BMHUS 8 Query Match Length 164.5 163 161 160.5 159 159 155.5 152.5 150.5 Score Result

C;Accession: T42286
R;Morita, K.; Chow, K.L.; Ueno, N.
Revelopment 126, 1337-1347, 1994
A;Title: Regulation of body length and male tail ray pattern formation of Caenorhabdita
A;Reference number: 222393; MUID:99146896; PMID:10021351

T43286

A;Residues: 1-365 <MOR> A;Cross-references: UNIPROT:076514; EMBL:AF074395; NID:g3328181; PIDN:AAC26791.1; PID:g

A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: mRNA

A; Accession: T43286

37.2%; Score 201; DB 2; Length 365; 36.3%; Pred. No. 4.3e-14;

Query Match Best Local Similarity

A,Map position: 5 C,Superfamily: inhibin

A;Gene: cet-1

bone morphogenetic	TGF beta homolog d	bone morphogenetic	bone morphogenetic	bone morphogenetic	-	bone morphogenetic			bone morphogenetic		bone morphogenetic				
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6															
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2 JH068	1 BMHU4	2 \$58791	2 \$38343	2 I49541	2 A40735	2 A49147	2 I50608	2 JC4646	1 BMHU3	2 I53032	2 JH0688	2 JH0687	2 JC4838	2 T03907	2 JH0801
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placental transforming growth factor-beta homolog - human C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 20-Nov-1997 #sequence_revision 20-Nov-1997 #text_change 09-Jul-2004
C;Date: 20-Nov-1997 #sequence_revision 20-Nov-1997 #text_change 09-Jul-2004
C;Gcession: JC5697 #sequence_revision 20-Nov-1997 #text_change 09-Jul-2004
R;Yokoyama-Xobayashi, M.; Saeki, M.; Sekine, S.; Kato, S.
J. Biochem. 122, 622-626, 1997
J; Biochem. 122, 622-626, 1997
J; Richell: Human cDNA encoding a novel TGF-beta superfamily protein highly expressed in particle Human cDNA encoding a novel TGF-beta superfamily protein highly expressed in particle Human cDNA encoding a novel TGF-beta superfamily protein highly expressed in particle Human cDNA encoding a novel TGF-beta superfamily protein highly expressed in particle Human cDNA encoding a novel TGF-beta superfamily protein highly expressed in particle Human cDNA encoding a novel TGF-beta superfamily protein highly expressed in particle Human cDNA encoding a role in reproduction.
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Copyright (c) 1993 - 2005 Compugen Ltd.
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1: geneseqp1980s:*
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	~ ~				ADJ87285 AAW93161		161	Human G p Murine GD
					ALIGNMENTS	YTS		
RESULT 1 AAR84709 ID AAR84709		standard;	rd; protein;	in,	112 AA.			
XX AC AAR84709	60;							
XX DT 23-MAY-1	-1996	(£	(first entry)	<u>?</u>				
Human	embry	onal	embryonal lung mature	ure	protein.			
XX KW Eosinophil KW embryonal	phil; nal l	inhi lung.	inhibitor, ang.	active	oxygen	production, bron	bronchial asthma;	a; human;
Ношо	sapiens							
PN JP07258293	8293-A	ď.						
60	-OCT-1995							
XX PF 23-MAR-199	4	٠.	, 94JP-00052225	222				•
23-MAR	-1994	٠.	94JP-00052225	222				
(ASAH) AŠAHI		KASEI KOGYO	0 KK	ن			
WPI; 1 N-PSDB	995-31	95-380074/ AAT05177.	1/49.					
4 g	or e	41 45	for the tr activė oxy	treatment oxygen in	nent of bronchial in eosinophil(s)	nchial asthma - nil(s).	inhibits	the
PS Claim 1;	1; Page	C4	; 26pp; J	Japanese	iese.	•		
The p from inhib	resent normal its.pr	seque dipl	e is cel	that classified sective	oxyge	12 amino acid mature embryonal lung tissue n in eosinophils and	re protein isola sue. The protein nd is useful for	isolated totein 11 for

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Gaps

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100.0%; Score 541; DB 2; Length 112; 100.0%; Pred. No. 1.3e-51; cive 0; Mismatches 0; Indels (